HAYDEN
SOFTWARE

SCORE IMPROVEMENT SYSTEM FOR THE

SAT*

Practice Tests

PREPARE NOW!

DEVELOPED BY ARROW INSTRUCTIONAL SYSTEMS, INC.

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HAYDEN
SOFTWARE

SCORE IMPROVEMENT SYSTEM FOR THE SAT*

Practice Tests Module
User's Guide

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15819-01
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INTRODUCTION

Welcome to the PRACTICE TESTS MODULE of the HAYDEN SCORE IMPROVEMENT SYSTEM FOR THE SAT*, one of three modules designed to help you raise your SAT scores. This Practice Tests Module is an effective tool to begin your preparation for the Scholastic Aptitude Tests. The system is easy to operate so that you can concentrate on its content. All of the information you need to complete examples or answer test questions appears on screen, as do instructions for moving from one part of the program to another. More detailed explanations follow in this manual. You can also read the instructions on screen by selecting the System User's Guide option after you load the program.

The PRACTICE TESTS MODULE includes three parts in addition to the User's Guide:

- Analysis of the SAT
- Pre-Test
- Practice Tests

The ANALYSIS OF THE SAT gives you insight into the workings of the actual exam — its organization and scoring, plus test-taking strategies and tips for raising your scores.

The PRE-TEST is a diagnostic-prescriptive tool for determining your strengths and weaknesses in the areas covered by the Mathematical and Verbal sections of the SAT. It is a two-hour test consisting of a similar mix of Math and Verbal questions as an actual SAT. After you complete the test your computer will provide scores in each of sixteen subjects which contribute to your Math and Verbal scores. This profile of your performance indicates which additional modules in the Hayden System will be useful in your preparation.

The PRACTICE TESTS are two-hour simulated exams with complete Mathematical and Verbal sections timed and formatted to be representative of the latest SATs and scored on the SAT scale. After reviewing your weak areas, take these Practice Tests and see how your performance would measure up on the actual exam.

This module consists of two disks: a Program Disk and a two-sided disk with a Test 1 side and a Test 2 side. Always load the Program Disk first. Instructions on the screen will prompt you to insert the other disk at the appropriate time.

1. USING THE HAYDEN SYSTEM

Menus

After you have loaded the Hayden Score Improvement System Program Disk into your computer's memory (see the loading instructions card) you will see the MAIN MENU with its four sections:

MAIN MENU

A. System User's Guide
B. An Analysis of the SAT
C. Pre-Test
D. Practice Tests

The MAIN MENU lets you move easily from one section of the program to another. Simply press the key corresponding to the letter next to the section you wish to see.

The SECTION MENUS list the subject areas covered in each part of the program. After you select an area, the system responds in one of three ways. It starts retrieving data from the disk already loaded, asks for a different disk to be loaded into the drive or displays a DETAIL MENU.

When you select either the Pre-Test or one of the Practice Tests from the MAIN MENU, a DETAIL MENU like the one below appears on the screen. You can take a complete test or start with any test section.

Test DETAIL MENU

A. Complete Test
B. Start With Section 1 - Verbal
C. Start With Section 2 - Mathematical
D. Start With Section 3 - Verbal
E. Start With Section 4 - Mathematical

After you make a selection, the system will start the test or prompt you to load another disk.

Function Keys

A function key is a key which has a specific effect on the program's operation each time it is pressed.

Whenever a menu is on your screen the following function keys are operational: M (Main Menu), P (Prior Menu) and Q (Quit). Pressing "M" always brings you back to the Main Menu. Pressing "P" causes the prior menu to be displayed. Pressing "Q" causes the computer to ask if you really want to quit. Answering "Y" ends the program. If you answer "N", you may continue where you left off.

While text (either instructions or test material) is on the screen, pressing "R" restarts the section (erasing any previous answers you may have entered), pressing "M" takes you to the last menu displayed and pressing "Q" enables you to quit.

The left-arrow key lets you page backwards through the text one screen at a time until the first screen of the section is reached. When a question appears on the screen, your previous answer, if any, is shown. You can replace that answer by entering another one, or you can leave your answer undisturbed by pressing the left-arrow again.

Pressing the letter "O" leaves the current question temporarily unanswered and displays the next question. At the end of the test section you have a chance to review all the unanswered questions.

While you are answering Reading Comprehension questions, you can review the reading paragraph without losing your place in the questions by pressing "P".

Taking a Test

Each test is divided into four 30-minute sections. If you do not have time to take an entire test in one sitting, you may take the test one or more sections at a time. After you choose to take either the Pre-Test or a Practice Test, the Test Detail Menu is displayed. You have the option to take the complete test or to start at the beginning of one of the four sections.

At the end of each test section you may stop the test by pressing "S". If you are taking the Pre-Test and choose to stop, the Pre-Test Section Menu will appear. To see a subject-by-subject analysis of your test results for that section, select "C", "Evaluating Pre-Test Performance."

If you decide to stop after a section of one of the Practice Tests, the computer will score the number of Verbal and Mathematical questions answered correctly and incorrectly. Write these numbers down and save them. You will need them after you have completed all four sections so that the computer can calculate your raw scores and your SAT equivalent scores. If you take a complete Practice Test, your computer will automatically calculate your raw scores and SAT equivalent scores.

If you complete all the questions in a section of the Pre-Test or a Practice Test before 30 minutes have elapsed, the computer will give you the option to review the entire section, review only the unanswered questions, start the next test section or stop the test.

When you choose to review the entire section each question will be displayed with your previous answer. To keep that answer, press that letter again. To change your answer, press the letter that corresponds to your new answer. To "erase" an answer and leave it blank, press the letter "O".

If you elect to review only the unanswered questions, only those question which you left unanswered by pressing "O" will be presented. As you review, you have the opportunity to answer them.

When all the appropriate questions have been reviewed, you will again have the option to review the entire section, review the unanswered questions, start the next section or stop the test. This cycle repeats until time runs out or you choose to start the next section.

Using Pre-Test Scores

The profile of your Pre-Test performance is the key to planning your review for the actual SATs. Refer to "Organization of the Hayden System" to determine which Score Improvement System modules you need to study. For most efficient preparation, concentrate review on your weaker areas.

In your review, you will want to take advantage of two features of the Hayden System: Examples With Tutormode and Examples Without Tutormode. After you answer a sample question in Examples With Tutormode, the system provides a step-by-step explanation of how to arrive at the correct answer. In Examples Without Tutormode you are simply shown which answer is correct.

If you answered at least 80% of the questions in a subject correctly, you may elect to skip review for that subject, and spend the time saved in an area which needs more work.

For subjects in which you answered between half and 80% of the questions correctly, at a minimum you will want to practice the Examples Without Tutormode section of the appropriate module. Working through Examples With Tutormode will further improve your understanding of the subject.

For subjects in which you answered less than half of the questions correctly you will benefit from first working on Examples With Tutormode and then practicing Examples Without Tutormode. Your teacher may recommend additional practice material. If time permits, review all the subject material in the Hayden Score Improvement System module covering your weak areas a second time.

Computing Practice Test Results

After you have completed all four sections of a Practice Test, choose selection "D", "Practice Test Scores" from the Practice Tests Section Menu. You will be prompted to enter the scores you wrote down after each section. On paper, total the number of Verbal questions correct and incorrect for all of the test sections except the one you have just completed, as the totals for that section are already in the computer's memory. Next, total the number of Mathematical questions correct and incorrect.

Your computer will prompt you to enter these four totals (Verbal questions correct, Verbal questions incorrect, Mathematical questions correct and Mathematical questions incorrect). Press RETURN after entering each one. Then press RETURN after entering the last total, and the computer will calculate your Verbal and Mathematical raw scores and SAT equivalent scores. The "time remaining" figures will be accurate only if you took the test in one sitting.

Remember, if you take a complete Practice Test in one sitting, your computer will automatically calculate your raw scores and SAT equivalent scores.

2. ORGANIZATION OF THE HAYDEN SYSTEM

The Hayden Score Improvement System is organized into three modules. It includes both simulated SAT exams (in this module) and complete reviews of subject areas covered by the Verbal and Mathematical sections of the SAT in two additional modules:

The Verbal Module provides tutorials, drill and analysis for the verbal areas covered on recent SAT exams.

The Vocabulary Section provides a thorough review of antonyms, analogies and sentence completions, as well as an on-screen dictionary with 1000 words.

The Reading Comprehension Section offers strategies and practice in reading passages and responding to questions about the material just read. Working with passages drawn from the most up-to-date sources in a variety of fields will help you improve your ability to determine main ideas, to recognize logical implications and to extract factual information from what you read.

The Math Module provides tutorials, drill and analysis for the mathematical areas covered on recent SAT exams.

The Algebra Section provides instruction and practice in solving the entire range of algebra problems of the types found on the SAT — linear and literal equations, systems of linear equations, quadratic and radical equations, and reducing fractions.

The Geometry Section provides instruction and practice in solving problems involving angle sums, equality of angles and sides of triangles, parallel lines, angles of a circle, the Pythagorean Theorem, special triangles, perimenters, areas and volumes. All figures needed to solve the problems are illustrated on the screen.

The Quantitative Comparisons and Word Problems Section covers the remaining areas in the Mathematical section of the SAT. Quantitative comparison problems — problems that emphasize reasoning skills used to determine which of two quantities is larger — improve skills in algebra and geometry as well as in other areas of mathematics. The other problems in this section include fractions and decimals, percentages,

ratios and proportions, sequences, graphs, and word problems including motion, mixture, and business and work problems.

Each subject within the sections described above includes three parts:

- Definitions, Analysis and Strategies
- Examples With Tutormode
- Examples Without Tutormode

Definitions, Analysis and Strategies should be reviewed before beginning the examples. It provides useful strategies for tackling the kind of questions the subject covers. First, background information on each question type is presented, then methods for answering these questions, including valuable tricks and shortcuts, are demostrated.

Examples With Tutormode is the core of the Hayden System. This option gives you a detailed, step-by-step explanation of how to arrive at the correct answer. By reviewing and practicing, you develop more efficient problem-solving techniques.

Examples Without Tutormode provides quick drill and practice in areas where you are already strong, so that you can improve speed and accuracy. If you answer incorrectly, you are shown the correct answer, but no detailed explanation is provided. At the end of the section, the computer tallies the number of questions answered correctly and incorrectly, providing an indication of how well you have mastered the subject.

3. AN ANALYSIS OF THE SCHOLASTIC APTITUDE TEST

Overview of the SAT

The SAT is an exam which attempts to measure your potential to do college level work. Both Verbal and Mathematical skills are tested during a three-hour exam which is usually administered between 9:00 A.M. and 12:00 Noon on specified Saturdays.

The exam is normally divided into six sections at the end of which you will be told to stop work. You will not be permitted to return to an earlier section after the time limit has elapsed.

The Mathematical sections measure problem-solving abilities involving arithmetic, algebra and geometry. The Verbal sections measure understanding of word relationships as well as vocabulary and reading passages of varying difficulty. Both sections require an ability to reason logically, understand basic ideas and grasp essential details.

SAT Format

The usual three-hour test period is divided into six 30-minute sections: some Verbal, some Mathematical and the TSWE (Test of Standard Written English) section which is used by college placement officers. The TSWE is not computed in either the Verbal or Mathematical score. In the Hayden Score Improvement System for the SAT you will not be concerned with the TSWE.

The six 30-minute sections normally included in the test book are as follows:

1. **Verbal Sections:**
   two 30-minute sections with a total of 85 questions.
2. **Mathematical Sections:**
   two 30-minute sections with a total of 60 questions.
3. **Test of Standard Written English:**
   one 30-minute section with 50 questions.
4. **Experimental Section:**
   one 30-minute section (Either Verbal, Mathematical or TSWE).

Only the Verbal and Mathematical sections count towards your SAT score, though you will not be told which section is experimental. The TSWE and Experimental sections are used for college placement and test control and are not included in your SAT score.

Recording Answers

Each section of the SAT is preceded by a separate set of directions. Read the directions carefully to make sure you understand what you are being asked to do.

Here is an example a set of directions similar to those found in the actual exam.

Directions: Each question below consists of a related pair of words or phrases, followed by five lettered pairs of words or phrases. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair.

Example:

Prong:Fork

(a) headlight:lamp
(b) cylinder:motor
(c) knife:edge
(d) illustration:book
(e) fence:house

(a) (b) (c) (d) (e)

(Darken the letter of your choice. In this example, (b) cylinder:motor is the correct choice.)

When recording your choices, avoid any stray marks on the answer grid. Such marks could invalidate an otherwise correct choice.

SAT Scoring

Your answer sheet is evaluated by a scanning machine and the spaces blackened for each question are recorded on a computer tape.

The computer compares your answers with the correct responses to calculate your raw score. Each correct answer is worth one point. Questions omitted do not count toward your score. For incorrect answers, fractions of points are deducted: 1/4 point for questions with five choices and 1/3 point for questions with four choices. Therefore you should avoid random guessing. However, when you are able to reduce your choices to two, most educators advise you to guess.

The following conversion chart shows how raw scores are then converted into SAT scaled scores ranging from 200 to 800. The Hayden Score Improvement System utilizes this chart to calculate your SAT equivalent scores.

Conversion Chart

Raw Scores to College Board Scores

Raw Score	Verbal Section	Raw Score	Verbal Section
85	800	40	470
80	760	35	430
75	720	30	400
70	680	25	360
65	640	20	330
60	600	15	290
55	570	10	260
50	540	5	220
45	500	0	200

Raw Score	Mathematical Section	Raw Score	Mathematical Section
60	800	25	480
55	750	20	440
50	700	15	390
45	650	10	350
40	620	5	300
35	570	0	250
30	520		

Your performance is compared with the performance of other students in the country. Approximately two-thirds of the students who take the SAT score between 400 and 600 on each of the tests.

The score required for admittance to a particular college or university is not fixed. No minimum score represents automatic admission.

Best Preparation

If you practice the skills necessary to do well on the SAT, study the examination format, and learn to work within the prescribed time limit for the exam, you can achieve higher scores and greater confidence in test-taking.

The Hayden Score Improvement System is designed to help prepare you to take the SAT in an intelligent manner. It will train you to work within the time allotted for each section of the exam so that you can enter the exam room with a sense of ease, confidence and preparedness.

APPENDIX A: Key to Pre-Test

Pre-Test
Section I
Time-30 Minutes
40 Questions

1. c
2. b
3. a
4. d
5. b
6. a
7. b
8. e
9. d
10. d
11. d
12. e
13. c
14. e
15. e
16. d
17. b
18. d
19. c
20. e
21. d
22. a
23. b
24. c
25. e
26. d
27. c
28. e
29. a
30. c
31. c
32. c
33. a
34. a
35. b
36. e
37. c
38. b
39. d
40. e

Pre-Test
Section II
Time-30 Minutes
25 Questions

1. c
2. a
3. d
4. e
5. e
6. a
7. c
8. b
9. d
10. e
11. d
12. d
13. a
14. a
15. c
16. a
17. b
18. a
19. e
20. d
21. b
22. c
23. b
24. b
25. a

Pre-Test
Section III
Time-30 Minutes
45 Questions

1. c
2. a
3. b
4. b
5. b
6. c
7. b
8. b
9. c
10. b
11. e
12. b
13. a
14. d
15. a
16. c
17. c
18. e
19. c
20. c
21. a
22. b
23. a
24. c
25. d
26. d
27. e
28. d
29. a
30. d
31. b
32. b
33. a
34. e
35. c
36. a
37. a
38. d
39. b
40. c
41. e
42. b
43. a
44. c
45. e

Pre-Test
Section IV
Time-30 Minutes
35 Questions

1. b
2. a
3. c
4. e
5. b
6. d
7. b
8. a
9. c
10. d
11. b
12. c
13. a
14. b
15. d
16. c
17. c
18. b
19. a
20. b
21. b
22. b
23. a
24. c
25. b
26. c
27. c
28. c
29. b
30. e
31. d
32. e
33. a
34. c
35. a

APPENDIX B: Answer Key to Practice Test #1

Practice Test #1
Section I
Time-30 Minutes
40 Questions

1. c
2. d
3. e
4. a
5. c
6. b
7. a
8. b
9. b
10. b
11. d
12. b
13. b
14. c
15. d
16. a
17. e
18. d
19. e
20. a
21. b
22. d
23. e
24. d
25. e
26. a
27. e
28. b
29. c
30. d
31. a
32. b
33. d
34. e
35. b
36. b
37. b
38. e
39. b
40. d

Practice Test #1
Section II
Time-30 Minutes
25 Questions

1. d
2. e
3. b
4. b
5. c
6. d
7. c
8. a
9. a
10. d
11. d
12. d
13. e
14. c
15. a
16. c
17. d
18. a
19. b
20. a
21. d
22. b
23. b
24. c
25. c

Practice Test #1
Section III
Time-30 Minutes
45 Questions

1. b
2. c
3. e
4. b
5. c
6. d
7. a
8. d
9. e
10. c
11. a
12. c
13. d
14. b
15. d
16. a
17. b
18. c
19. d
20. b
21. e
22. c
23. a
24. e
25. d
26. a
27. c
28. d
29. a
30. d
31. c
32. a
33. b
34. d
35. c
36. c
37. d
38. a
39. c
40. b
41. a
42. e
43. b
44. d
45. b

Practice Test #1
Section IV
Time-30 Minutes
35 Questions

1. b
2. a
3. d
4. a
5. e
6. c
7. e
8. a
9. c
10. a
11. c
12. b
13. c
14. c
15. b
16. c
17. d
18. a
19. c
20. b
21. a
22. a
23. c
24. a
25. b
26. c
27. b
28. c
29. b
30. d
31. d
32. e
33. c
34. a
35. a

APPENDIX C: Answer Key to Practice Test #2

Practice Test #2
Section I
Time-30 Minutes
45 Questions

1. e
2. b
3. c
4. a
5. d
6. e
7. b
8. e
9. d
10. a
11. d
12. c
13. d
14. b
15. d
16. a
17. a
18. d
19. c
20. b
21. e
22. c
23. d
24. a
25. c
26. c
27. e
28. e
29. a
30. b
31. c
32. a
33. d
34. c
35. c
36. c
37. c
38. e
39. d
40. c
41. d
42. d
43. e
44. d
45. b

Practice Test #2
Section II
Time-30 Minutes
25 Questions

1. a
2. c
3. c
4. a
5. d
6. e
7. b
8. d
9. d
10. b
11. e
12. d
13. b
14. a
15. b
16. a
17. e
18. c
19. a
20. d
21. d
22. b
23. e
24. c
25. a

Practice Test #2
Section III
Time-30 Minutes
40 Questions

1. a
2. b
3. d
4. e
5. b
6. b
7. b
8. e
9. b
10. d
11. d
12. d
13. a
14. b
15. d
16. e
17. c
18. e
19. e
20. b
21. e
22. b
23. c
24. a
25. e
26. e
27. a
28. b
29. c
30. d
31. d
32. e
33. d
34. d
35. c
36. a
37. d
38. c
39. b
40. c

Practice Test #2
Section IV
Time-30 Minutes
35 Questions

1. c
2. d
3. a
4. a
5. b
6. d
7. e
8. d
9. a
10. b
11. d
12. b
13. a
14. c
15. b
16. c
17. b
18. a
19. b
20. c
21. c
22. b
23. a
24. b
25. d
26. c
27. b
28. c
29. a
30. d
31. d
32. a
33. b
34. e
35. b

APPENDIX D

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